

# GB Operating Instructions FM/1/2 digi 42

WA-EKF 2738/07.95/S:MMS/D:Bau/80.10.0679.7

## Connection

see appliance stamp/sticker/rating plate

Grässlin time switch modules are largely protected against „spike“ or interference voltages. If faults still occur, counter-measures against voltage peaks can be taken with familiar elements (varistors, suppressor diodes etc.). Particular attention must be paid to this when inductive loads are connected.

## 1. Putting into operation

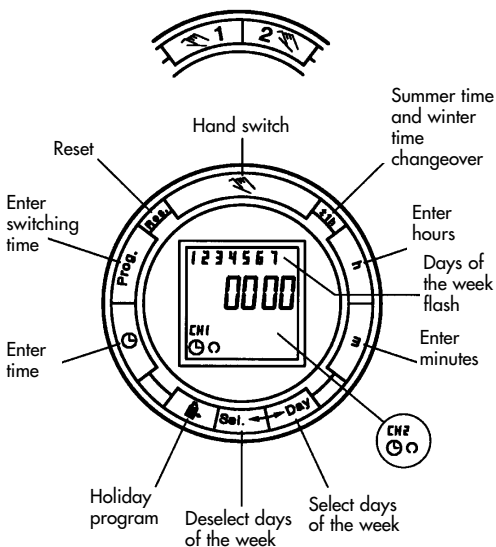
The steps marked with the symbol ► are necessary to carry out a switching program.

### ► 1.1 Reset

Press the **"Reset"** key with a pencil or similar object. This sets the time switch to its basic setting.

- before every restart
- to delete all switching times and the time (with the exception of the standard program)

The following appears after approximately 2 seconds:



### 1.2 Standard program (available on request)

Modules supplied with an integrated standard program can be activated without programming on Mondays – on time – at 20:00. The standard program contains the following preset switching times which, however, can also be changed.

Monday – Friday	Saturday + Sunday
6:00 ☉ = ON	7:00 ☉ = ON
22:00 ☉ = OFF	23:00 ☉ = OFF

#### Activation of the standard program:

- 1 After pressing the **"Reset"** key (see 1.1):
- 2 Press the "☉" key on Mondays at 20:00: The standard program is activated and runs on time.

### ► 1.3 Entering the time and current day of the week

- 1 After pressing the **"Res"** key (see 1.1):
- 2 During the summer time period: press the **"±1h"** key once.

- 3 Keep the "☉" key pressed during steps 4, 5 and 6.

- 4 With the **"h"** key: enter the hours

- 5 With the **"m"** key: enter the minutes

- 6 With the **"Day"** key: enter the current day  
1 = Mo ... 7 = Su

- 7 Release the "☉" key

The colon now flashes at one second intervals.

Note:

If the **"h/m"** keys are pressed for longer than 2 seconds, the display will enter fast-forward scroll mode.

### ► 1.4 Entering switching times

42 memory locations are available

Each switching time occupies 1 memory location.

- 1 Keep pressing the **"Prog."** key until a free memory location **"- - - -"** is shown in the display.

- 2 Select the switching functions **"☉"** (ON) or **"☉"** (OFF) with the **"☉"** key for channel 1 or 2 (depending on the version).

- 3 With the **"h"** key: enter the hours

- 4 With the **"m"** key: enter the minutes

If a switching command is to be executed every day, proceed with step 5. If 1 switching command is to be executed only on one day or on certain days skip step 5 and continue with step 6.

- 5 Save with the **"Prog."** key **or**

- 6 With the **"Day"** key, select 1 day on which the switching command is not to be carried out (cursor flashes).

- 7 Confirm this day with the **"Sel."** key (day of the week and cursor flash)

- 8 Press the **"Day"** key (day is deselected).

Repeat steps 6, 7 and 8 for every day to be deselected.

- 9 Save with the **"Prog."** key (the next free memory location is displayed)

**or**

- 10 Save with the "☉" key.

The time switch goes over to automatic mode and displays the current time.

Begin every additional switching time and the associated switching state ☉ = ON or ☉ = OFF again with 1.4.

Note:

If an input is incomplete, the segments still not selected are displayed flashing.

If you have deselected a day on which the switching command should be carried out,

- 1 Reselect the deselected day with the **"Day"** key (day of the week and cursor flash).

- 2 Confirm this day with **"Sel."** (cursor flashes).

- 3 Press the **"Day"** key (day is reselected).

- 4 Save with the **"Prog."** key (the next free memory location is displayed)

**or**

- 5 Save with the "☉" key.

### 1.5 Free channel block formation

On the two channel version, one timed instruction space can be used to enter a switching command (ON or OFF) for either channel 1 or channel 2, or both channels if required.

2. Additional functions

2.1 Summer time and winter time setting

- Press the "±1h" key once.

2.2 Manual switch "↔"

The current switching state can be changed at any time with the "↔" key for channel 1 or 2 (depending on the version). Use of this manual override facility does not alter any of the programmed information.

Automatic Mode ⏻	Manual Mode ↔	Continuous Operation ⏻ ⏻
⏻ ⏻ = ON ⏻ ⏻ = OFF	⏻ ↔ = OFF ⏻ ↔ = ON	⏻ = Continuous ON ⏻ = Continuous OFF
The switching times correspond to the entered program.	If the current switching state is changed manually, the next switching command is again executed automatically according to the entered switching program	The output will remain fixed ON ⏻, or fixed OFF ⏻ as selected indefinitely until the "↔" key is used to restore the timed function.

2.3 Reading the programmed switching times

- 1 Press the "Prog." key several times:
  - displays all entered switching times starting with the first memory location.
  - the first free memory location "– : – : –" is then displayed.
  - the number of memory locations still free is then displayed.If the memory locations are occupied, the following appears in the display: "FR 00"
- 2 Press the "⏻" key:

The time switch changes to automatic mode and displays the current time.

2.4 Changing the programmed switching times

- 1 Keep pressing the "Prog." key until the switching time to be changed is displayed.
- 2 The new data can then be entered as described in Point 1.4.

Note on saving switching times:  
If programming is not completed with the "⏻" key after the switching time is entered (1.4), the complete switching command is still automatically saved after approximately 90 seconds. The time switch then changes to automatic mode and shows the current time again.

2.5 Deleting individual switching times

- 1 Keep pressing the "Prog." key until the switching time to be deleted is displayed.
- 2 Set to "– : –" with the "h" or "m" key and keep the "⏻" key pressed for about 3 seconds.

The switching time is deleted and the current time is displayed after the key is released.

2.6 AM/PM time display

If the "±1" key and the "h" key are pressed simultaneously, the time display is switched to AM/PM mode (used mainly in English-speaking countries).

2.7 Holiday programⓂ

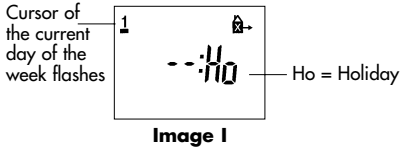
Note:  
The holiday program has priority over the standard week program. The holiday program can only be entered if all seven days of the week (1234567) are selected.

Entering switching times as described under 1.4

The "Ⓜ" key must be pressed for each switching time. Next, save the holiday switching times with the "Prog." or "⏻" key.

Entering the start and duration of the holiday program

- 1 After entering the switching times for the holiday program
- 2 Press the "Ⓜ" key once. the following image appears:



- 3 If the holiday program is to start on a different day to the current one – max. 6 days ahead – use the "Day" key to select the day on which the holiday program is to commence.

If the holiday program is to be executed for up to max. 99 days, continue with steps 4 + 5.

If the holiday program is to be executed for an unlimited period, leave out step 4 and continue with step 5.

- 4 Enter the required number of holiday days with the "Sel." key (1 to max. 99).
- 5 Press the "⏻" key to save the entries.

If the current day of the week was entered as the holiday program start, the following appears:

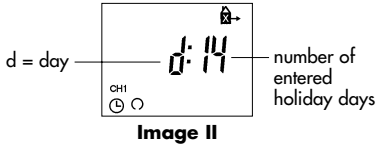


Image II remains until the holiday days have passed, for example d:10, d:09, d:08 ..... etc.

Pressing the "⏻" key again and holding it down now allows the day of the week, the time and the current switching state – "Ⓜ" = ON or "⏻" = OFF – to be checked.

If a day of the week other than the current day was entered as the holiday program start, the current time is displayed after the "⏻" key is pressed. The holiday program is then started at midnight at the start of the selected day of the week and its duration is displayed (Figure II).

After the programmed holiday days have expired, the current time appears in the display.

Aborting the holiday program prematurely

If the holiday program has already started:

- Press the "Ⓜ" key once

If the holiday program has not yet started:

- Press the "Ⓜ" key twice

3. Technical data

Connection	see unit stamp
Switching capacity	see unit stamp
Ambient temperature	–10 °C to +55 °C
Running reserve	see unit stamp
Memory locations	42
Shortest switching time	1 minute
Programmable	every minute